IN THE CLAIMS:

Please add new claims 28-40 as follows:

28. (New) Apparatus for generating image data usable in forming a hologram comprising:

first image data generating means for generating two-dimensional image data;

second image data generating means for generating three-dimensional image data including image data representing at least a portion of an actual three-dimensional object;

image synthesizing means for producing a synthetic image by combining said two-dimensional image data onto said three-dimensional image data representing the portion of said three-dimensional object; and

parallax image train generating means for generating a parallax image train from said synthetic image.

29. (New) Apparatus according to claim 28, further comprising recording means for sequentially recording each image of the parallax image train as an element hologram on a sensitive material by exposing the sensitive material to an object beam and reference beam at the same time.

30. (New) Apparatus according to claim 28, wherein said image train generating means generates said parallax image train by rendering said synthetic image.

31. (New) Apparatus for generating image data usable in forming a hologram comprising:

image capturing means for capturing two-dimensional image data;

image data generating means for generating three-dimensional image data including image data representing at least a portion of an actual three-dimensional object;

image data synthesizing means for producing a synthetic image by combining two-dimensional image data captured by said capturing means with said three-dimensional image data representing the portion of said three-dimensional object; and

image train generating means for generating a parallax image train from said synthetic image.

32. (New) Apparatus for generating image data usable in forming a hologram comprising:

first image generating means for generating an image train of three-dimensional image data including image data representing at least a portion of an actual three-dimensional object;

second image generating means for generating an image train of two-dimensional image data; and

synthesizing means for producing a parallax image train by pasting the image train of two-dimensional image data to the image train of three-dimensional image data representing the portion of the three-dimensional object.

33. (New) Apparatus according to claim 32, further comprising recording means for sequentially recording each image of the parallax image train as an element hologram on a sensitive material by exposing the sensitive material to an object beam and reference beam at the same time.

34. (New) Apparatus according to claim 32, wherein

the first image generating means generates the image train by rendering the three-dimensional image data, and the second image generating means generates the image train by rendering the two-dimensional image data.

35. (New) Method for generating image data usable in forming a hologram comprising the steps of:

generating two-dimensional image data;

generating three-dimensional image data including image data representing at least a portion of an actual three-dimensional object;

producing a synthetic image combining said two-dimensional image data onto said three-dimensional image data representing the portion of the three-dimensional object; and

generating a parallax image train from said synthetic image.

36. (New) The method according to claim 35, further comprising the step of sequentially recording each image of the parallax image train as an element hologram on a sensitive material by exposing the sensitive material to an object beam and reference beam at the same time.

37. (New) A method for generating image data usable in forming a hologram comprising the steps of:

generating an image train of three-dimensional image data including image data representing at least a portion of an actual three-dimensional object;

generating an image train of two-dimensional image data; and

producing a parallax image train by pasting the image train of two-dimensional image data to the image train of three-dimensional image data representing the portion of the three-dimensional object.

38. (New) The method according to claim 37, further comprising the step of sequentially recording each image of the parallax image train as an element hologram on a sensitive material by exposing the sensitive material to an object beam and reference beam at the same time.

39. (New) A holographic recording medium having recorded therein element holograms corresponding to a parallax image train produced from a synthetic image produced by combining two-dimensional image data onto three-dimensional image data representing at least a portion of an actual three-dimensional object.

40. (New) A holographic recording medium having recorded therein element holograms corresponding to a parallax image train produced by pasting an image train of two-dimensional image data to an image train of three-dimensional image data representing at least a portion of an actual three-dimensional object.